

CONSTRUCTABILITY REVIEWS

Greg Kicinski

Office of Project Management

317-234-1534

gkicinski@indot.in.gov

PURPOSE

- Constructability Reviews are intended to improve the effectiveness of a set of plans, specifications and bid documents by having these reviewed by those with construction expertise.

PURPOSE

- They should review issues that affect the contractor's ability to understand the plans and specifications well enough to provide well informed bids and meet INDOT's requirements during construction.

PURPOSE

- More constructable plans reduces the contractor's risk and therefore, INDOT's cost.
- $RISK = \$$

PURPOSE

- It is all about learning from each other to improve our processes and procedures to make each project better than the last.
- Due to lack of communication, we tend to make the same mistakes over and over.

Don't we already do this
at field checks?

I have heard that the Area Engineers are too busy to do this. Won't this take a lot of extra time?

When

- During development, Reviews are completed at the stages 1, 2 and 3 submittal and final package submittal
- Post development, Reviews are completed pre-construction, mid-construction and post construction
- Designer evaluations are completed after each review.

Stage 1 Review

- Site Investigation
- Utilities and R/W
- Traffic Maintenance and Traffic Management Plan
- General Conditions

Stage 2 and 3 Review

- Site Investigation
- Right of Way
- Utilities and Railroad
- Environmental
- Traffic Maintenance and Traffic Management Plan
- Construction Phasing
- Scheduling and other considerations

Final Plan Package Review

- Purpose is to review all final bid documents including special provisions and pay items

Reviews During Construction

- Pre-construction review to collect information gained during the bidding process
- Mid-construction review to collect information while it is being completed and still fresh in everyone's mind
- Post-construction review to get a final true picture of the actual quality of the bid documents

Constructability Review level

- Determined by the Project Manager
- Level 1, 2 and 3 Reviews depending on project size and complexity

Level 1 Review

- Performed at all development and post letting stages
- Larger, complex roadway improvements
- Interchange construction or complex modification
- Large rehabilitation projects that include widening and major structure replacement

Level 2 Review

- Stage 1, 3 and Final Plan Package
- Less complex roadway projects
(including widening projects with minimal staging/traffic handling)
- Less complex structure or interchange projects
- Most rehabilitation projects

Level 3 Review

- Stage 3 design review for simple projects
- Preventive maintenance overlay projects

Questions?